

REMARKS/ARGUMENTS

The Final Official Action dated 06 July 2005 has been carefully considered, along with cited references, applicable sections of the Patent Act, Patent Rules, the Manual of Patent Examining Procedure and relevant decisional law.

Claim 1 is rejected under 35 U.S.C. § 102(b) as being anticipated by Zoiss et al. (US 5,666,715).

Applicant respectfully submits that the present invention is significantly different from that of the cited arts as can be seen from their respective structures. Applicant's invention as specified in the newly added claim 4 is patentably distinguishable over these references when taken either singularly or in combination for the following reasons:

The Examiner cites Zoiss et al. as an example disclosing a method for driving an electric percussion tool including a solenoid (21), a plunger core (31) slidably received in the solenoid, a spring member (41) for returning the plunger core (31), and a switch (18); the method further comprising: the steps of operating the tool as described in column 3, lines 13-20, lines 24-32, lines 65-67; column 4, lines 1-3, column 6, lines 50-56 and 64-67; column 9, lines 16-27; and Figure 13.

While Zoiss et al. does not expressly state that the spring is made with a smaller biasing force, it is inherent that the spring of Zoiss et al. includes a smaller biasing force, which returns the solenoid plunger to the plunger's present position because such language is relative and the structure is deemed met. Further, while Zoiss et al. does not expressly state allowing the spring member a

longer time to return the plunger core; it is clear that expressions such as “striking” and “pulse” imply rapid movement and “gradual return” implies slow movement. Accordingly, the claim language is inherently met.

However, actually, in all of the cited arts, when the trigger or switch is depressed or actuated by the user once, the solenoid(s) may be actuated or energized to actuate or to operate the plunger core once only, and thus may conduct only one striking operation per each actuating of the trigger or switch. For allowing the plunger core to be actuated or operated again, the recovering spring member should be made stronger in order to return the plunger core quickly. Accordingly, a large part of the actuating force generated by the solenoid will be resisted or offset by the recovering spring member.

By contrast, in Applicant's invention, as amended in the newly added claim 4, when the trigger or switch (35) is depressed or actuated by the user once, the solenoid(s) may be actuated or energized to actuate or to operate the plunger core (21) two or more times with two or more positive waves or signals, and thus may conduct two or more striking operations per each actuating of the trigger or switch (35). None of the cited arts suggested that the plunger core (21) may be actuated to conduct two or more striking operations when the trigger or switch (35) is actuated only once.

In addition, the recovering spring member (14) of the present invention may be made weaker and may have a longer time to return the plunger core back to the original position, such that only a relatively small part of the actuating force generated by the solenoid (20) will be resisted or offset by the recovering spring member (14).

The cited arts fail to teach a plunger core (21) that may be actuated to conduct two or more striking operations when the trigger or switch (35) is actuated only once, and fail to simultaneously teach a relatively weaker recovering spring member (14) to offset only a small part of the actuating force generated by the solenoid (20), and to allow the plunger core (21) to apply a stronger striking force. The applicant's invention is different from that of the cited arts and has improved over the cited arts.

In view of the foregoing amendments and remarks, applicant respectfully submits that the present invention is patentably distinguishable over the cited arts and that the application is now in condition for allowance, and such action is earnestly solicited.

Courtesy and cooperation of Examiner CHUKWURAH are appreciated.

respectfully submitted,

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